	Application No.	Applicant(s)	\sim
	09/295,958	ADAMS ET AL.	(ph)
Notice of Allowability	Examiner	Art Unit	
	Huedung X. Cao	2821	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due c	d ourse. THIS
1. \boxtimes This communication is responsive to <u>amendment, filed on</u>	<u>08/18/05</u> .		
2. The allowed claim(s) is/are <u>1,2 and 4-46</u> .			,
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 			
□ Certified copies of the priority documents have □ Certified copies of the priority documents have			
Copies of the certified copies of the priority does			on from the
International Bureau (PCT Rule 17.2(a)).	odinente nave been received in this	national stage applicati	on nom the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requ	uirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or NO tion is deficient.	OTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) 🗌 including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawing to 37 CFR 1.121(ngs in the front (not the l d).	back) of
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	must be submitted. No AL MATERIAL.	ote the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal P	Patent Application (PTO	152)
Notice of Prefixerson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary		- 10 <i>2)</i>
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat	te	
Paper No./Mail Date			•
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Stateme	ent of Reasons for Allow	vance
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Examiner's Statement of Reasons for Allowance

1. Claims 1-2, and 4-46 are allowed.

2. The following is an examiner's statement of reasons for allowance:

The prior art made of record fails to anticipate or make obvious the claimed invention. Specifically, the prior art fails to teach, in combination with the remaining elements as recited in claims 1, 10, 21, and 34:

The present invention is directed a ridged pyramidal horn antenna.

Regarding claim 1, Prior Art fails to specifically teach that, the first antenna and the second antenna are oriented so that an imaginary line drawn through the feed points corresponding to said first antenna is orthogonal to an imaginary line drawn through said feed points corresponding to said second antenna.

Regarding claim 10, Prior Art fails to specifically teach that, the performance of each of said antennas can be described by an axial ratio defined as the difference between vertical gain and horizontal gain at a particular frequency and wherein said axial ratio varies by no less than plus or minus 5 dB.

Regarding claims 21, and 34 Prior Art fails to specifically teach that, a pair of spiral antenna elements disposed on said first side of said substrate in which each of said elements has a corresponding feed point, and said spiral antenna elements making at least three 360 degree turns; a conducting ground plane disposed on said second side of said substrate, wherein said substrate separates said spiral antenna elements from said conducting ground plane by a distance that no greater than 6 inches.

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Claims 2, and 4-9 are allowed for depending on claim 1.

Claims 11-20 are allowed for depending on claim 10.

Claims 22-33 are allowed for depending on claim 21.

Claims 35-46 are allowed for depending on claim 34.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Inquires

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huedung Cao whose telephone number is (571) 272-1939.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong, can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Huedung Cao Patent Examiner

> TUYET VO PRIMARY EXAMINER